

Notice of Allowability

Application No.

10/796,597

Applicant(s)

SON ET AL.

Examiner

Prabodh M. Dharia

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10-24-2007.
2. ☒ The allowed claim(s) is/are 1-62.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Art Unit: 2629

1. **Status:** Please all the replies and correspondence should be addressed to Examiner's new art unit 2629. Receipt is acknowledged of papers submitted on 10-24-2007 under amendments and request for reconsideration, which have been placed of record in the file. Claims 1-62 are pending in this action.

Response to Amendment

2. The amendment filed 10-24-2007 does not introduce any new matter into the disclosure. The added material is supported by the original disclosure. The applicant has amended independent claims 1,31,39 and 46 adding allowable limitations to expedite allowability of the instant application.

3. Applicant has amended the specification to correlate the drawings to the specification per objection. Therefore objection to specification and drawings are withdrawn.

4. Applicant arguments regarding the objection to the amendments filed on July 16, 2007 under 35 U.S.C. 132(a) introducing new matter are persuasive. Therefore the objection to the amendment filed on July 16, 2007 under 35 U.S.C. 132(a) as allegedly introducing new matter into the disclosure is withdrawn.

5. Applicant has amended claims 1,31,39 and 46 adding allowable limitations to expedite allowability of the instant application. Applicant arguments filed on 10-24-2007, under remark regarding allowable limitations "comprising a first reset period, a second reset period

Art Unit: 2629

immediately following the first reset period, an address period and a sustain period, the method comprising: setting the plurality of discharge cells in the first reset period, wherein the first reset period comprises a rising voltage period and a falling voltage period, and a reset waveform applied to the first electrodes gradually rises during the rising voltage period and gradually falls during the falling voltage period; further setting the plurality of discharge cells in the second reset period; selecting at least one discharge cell from among the plurality of discharge cells in the address period; and discharging said at least one discharge cell in the sustain period” are persuasive; as after further extensive search and consideration, the amended claims 1,31,39 and 46, do overcome the prior art of Setoguchi et al. (6,608,609 B1); Kanazawa; Yoshikazu (US RE 37083 E) and Shiizaki et al. (US 2005/0052353 A1) with all of the other prior art cited on 892’s 1449’s, searched in NPL and searched in PGPUB, which puts application number 10796597 in condition for allowance.

The closest prior art recited on 892’s to applicant’ teaching Nagaoka; Keishin et al. (US 6512501 B1) discloses a method for driving a plasma display panel having first and second plates opposite each other, wherein first and second electrodes are formed on the first plate in parallel and third electrodes are formed on the second plate so as to be orthogonal to the first and second electrodes, and wherein one frame of image includes n subfields, and each of the n subfields includes a reset period for causing an erase discharge to equalize states of wall charges in display cells of the panel, an address period for forming wall charges in the display cells, and a sustain discharge period for causing a sustain discharge based on the wall charges formed during the address period by repeatedly applying a sustain discharge pulse to the panel, said method comprising the step of: consecutively applying, within the reset period, a plurality of reset pulses

Art Unit: 2629

which erase wall charges and continuously change a voltage applied to any of the first, second and third electrodes in order to cause a discharge at a voltage close to a discharge start voltage. Hence, it is possible to stably and certainly erase (reset) the wall charges in the cells having different discharge start voltages at voltages close to the respective discharge start voltages.

However, the prior art of Nagaoka; Keishin et al. (US 6,512,501 B1) with all of the other prior art cited on 892's, 1449's, searched in NPL and searched in PG PUB fails to recite or disclose the uniquely distinct features of the independent claims limitations below in combination with all the other limitations of independent claims recited: "comprising a first reset period, a second reset period immediately following the first reset period, an address period and a sustain period, the method comprising: setting the plurality of discharge cells in the first reset period, wherein the first reset period comprises a rising voltage period and a falling voltage period, and a reset waveform applied to the first electrodes gradually rises during the rising voltage period and gradually falls during the falling voltage period; further setting the plurality of discharge cells in the second reset period; selecting at least one discharge cell from among the plurality of discharge cells in the address period; and discharging said at least one discharge cell in the sustain period."

Allowable Subject Matter

6. Claims 1-62 are allowed.
7. The following is an examiner's statement of reasons for allowance:

Art Unit: 2629

Applicant has amended claims 1,31,39 and 46 adding allowable limitations to expedite allowability of the instant application and overcome prior art rejection.

Applicant's arguments filed on 10-24-2007 are convincing. As argued by applicant in remarks under claim rejection page 19, last paragraph, page 20, paragraphs 1,2,4 and 5, page 21, paragraphs 3,4 and page 22, paragraphs 1,2; prior art of Setoguchi et al. (6,608,609 B1); Kanazawa; Yoshikazu (US RE 37083 E) and Shiizaki et al. (US 2005/0052353 A1) fails to recite or disclose all the other limitations of independent claims in combination with uniquely distinct features represented by underlined bold claim limitations recited below;

comprising a first reset period, a second reset period immediately following the first reset period, an address period and a sustain period, the method comprising: setting the plurality of discharge cells in the first reset period, wherein the first reset period comprises a rising voltage period and a falling voltage period, and a reset waveform applied to the first electrodes gradually rises during the rising voltage period and gradually falls during the falling voltage period; further setting the plurality of discharge cells in the second reset period; selecting at least one discharge cell from among the plurality of discharge cells in the address period; and discharging said at least one discharge cell in the sustain period.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2629

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 571-272-7668.

The examiner can normally be reached on M-F 8AM to 5PM.

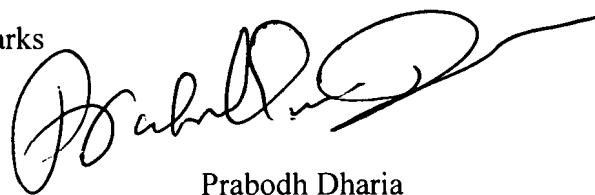
9. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231



Prabodh Dharia

Full Signatory Authority Program

AU2629

11-02-2007